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* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 JUL 28 CA/CAPLUS patent coverage enhanced
NEWS 3 JUL 28 EPFULL enhanced with additional legal status
information from the epline Register
NEWS 4 JUL 28 IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 5 JUL 28 STN Viewer performance improved
NEWS 6 AUG 01 INPADOCDB and INPAFAMDB coverage enhanced
NEWS 7 AUG 13 CA/CAPLUS enhanced with printed Chemical Abstracts
page images from 1967-1998
NEWS 8 AUG 15 CAOLD to be discontinued on December 31, 2008
NEWS 9 AUG 15 CAPLUS currency for Korean patents enhanced
NEWS 10 AUG 27 CAS definition of basic patents expanded to ensure
comprehensive access to substance and sequence
information
NEWS 11 SEP 18 Support for STN Express, Versions 6.01 and earlier,
to be discontinued
NEWS 12 SEP 25 CA/CAPLUS current-awareness alert options enhanced
to accommodate supplemental CAS indexing of
exemplified prophetic substances
NEWS 13 SEP 26 WPIDS, WPINDEX, and WPIX coverage of Chinese and
and Korean patents enhanced
NEWS 14 SEP 29 IFICLS enhanced with new super search field
NEWS 15 SEP 29 EMBASE and EMBAL enhanced with new search and
display fields
NEWS 16 SEP 30 CAS patent coverage enhanced to include exemplified
prophetic substances identified in new Japanese-
language patents
NEWS 17 OCT 07 EPFULL enhanced with full implementation of EPC2000
NEWS 18 OCT 07 Multiple databases enhanced for more flexible patent
number searching
NEWS 19 OCT 22 Current-awareness alert (SDI) setup and editing
enhanced
NEWS 20 OCT 22 WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT
Applications
NEWS 21 OCT 24 CHEMLIST enhanced with intermediate list of
pre-registered REACH substances

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability

10/541,531

11/10/2008

NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:14:39 ON 10 NOV 2008

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:14:51 ON 10 NOV 2008
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STRUCTURE FILE UPDATES: 9 NOV 2008 HIGHEST RN 1071762-23-6
DICTIONARY FILE UPDATES: 9 NOV 2008 HIGHEST RN 1071762-23-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

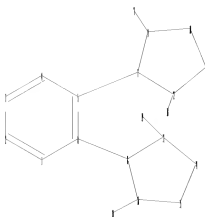
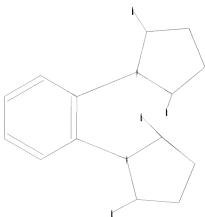
TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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=>
Uploading C:\Program Files\Stnexp\Queries\10541531.str



```

chain nodes :
17 18 19 20
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
chain bonds :
5-7 6-8 9-17 12-18 13-19 16-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-9 7-12 8-13 8-16 9-10 10-11 11-12 13-14
14-15 15-16
exact/norm bonds :
9-17 12-18 13-19 16-20
exact bonds :
5-7 6-8 7-9 7-12 8-13 8-16 9-10 10-11 11-12 13-14 14-15 15-16
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 : 7 : 8 :

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 19:CLASS
20:CLASS

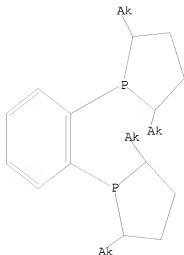
```

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 10:15:09 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 27 TO ITERATE

100.0% PROCESSED 27 ITERATIONS

4 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 229 TO 851

PROJECTED ANSWERS: 4 TO 200

L2 4 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 10:15:17 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 715 TO ITERATE

100.0% PROCESSED 715 ITERATIONS

55 ANSWERS

SEARCH TIME: 00.00.01

L3 55 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.36

178.57

FILE 'CAPLUS' ENTERED AT 10:15:23 ON 10 NOV 2008

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FILE COVERS 1907 - 10 Nov 2008 VOL 149 ISS 20
FILE LAST UPDATED: 9 Nov 2008 (20081109/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

```
=> s l3 and catalyst
      309 L3
      820579 CATALYST
      816968 CATALYSTS
      1051230 CATALYST
              (CATALYST OR CATALYSTS)
L4      270 L3 AND CATALYST

=> s l4 and chiral
      127690 CHIRAL
      19 CHIRALS
      127695 CHIRAL
              (CHIRAL OR CHIRALS)
L5      182 L4 AND CHIRAL

=> s l5 and zeolite
      109468 ZEOLITE
      105615 ZEOLITES
      132884 ZEOLITE
              (ZEOLITE OR ZEOLITES)
L6      6 L5 AND ZEOLITE

=> d ibib abs hitstr tot
```

16 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 ACCESSION NUMBER: 2007139338 CAPLUS
 DOCUMENT NUMBER: 146141894
 TITLE: Enantioselective hydrogenation over immobilized rhodium diphosphine complexes on mesostructured materials
 AUTHOR(S): Croemen, Adriano; Heidecker, Wolfgang F.
 CORPORATE SOURCE: Department of Chemical Technology and Heterogeneous Catalysis, University of RWTH Aachen, Aachen, 52074, Germany
 SOURCE: Catalysis Today (2007), 121 (3-2), 130-139
 PUBLISHER: CODEN: CATTAY; ISSN: 0920-5062
 DOCUMENT TYPE: Elsevier, B.V.
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 146141894
 AB New heterogeneous chiral catalysts were prepared from Rh diphosphine complexes [Rh(P-P)CODCl] (P-P) = diphosphine ligand and COD = cyclooctadiene, and Al-MCM-41, Al-MCM-48, and Al-SBA-15, resp. Impregnation of the mesoporous Al-MCM-41, Al-MCM-48, and Al-SBA-15 with the organometallic complexes in CODCl led to strongly bonded hydrogenation catalysts. The catalysts were characterized with XRD, FTIR and NMR NMR, as well as thermoprogrammed desorption of H₂, CO, and N₂ sorption expts. The hydrogenation of di-Me stannate, Me α -acetoacrylate, and Me α -acetoindolizinate were studied as test reactions. The immobilized catalysts showed high activities and excellent chemo- and enantioselectivities. Up to 99% e.e., >99% conversion and 99% selectivity were observed in the case of studied prochiral olefins. The catalysts could be reused without a loss of catalytic activity. Leaching of the homogeneous complex out of the mesoporous framework was not observed
 IT 134715-35-0
 RI: CAT (Catalyst use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)
 RE 134715-35-0 CAPLUS
 CD Phospholane, 1,1'-[1,2-phenylene]bis[2,5-dimethyl-, (2S,2',5S,5'S)- (CA INDEX NAME)
 Absolute stereochemistry. Rotation (+).

16 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

16 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2007139338 CAPLUS
 DOCUMENT NUMBER: 146141894
 TITLE: Enantioselective hydrogenation over immobilized transition metal complex catalysts
 AUTHOR(S): Croemen, A.; Heidecker, W. F.
 CORPORATE SOURCE: Department of Chemical Technology and Heterogeneous Catalysis, RWTH Aachen University, Aachen, 52074, Germany
 SOURCE: Studies in Surface Science and Catalysis (2004), 154 (Recent Advances in the Science and Technology of Solids and Related Materials), 2879-2886
 PUBLISHER: CODEN: SSTCTM; ISSN: 0167-2991
 DOCUMENT TYPE: Elsevier, B.V.
 LANGUAGE: English
 AB A series of heterogeneous chiral catalysts was prepared from rhodium diphosphine complexes [Rh(L)-CODCl] (L-L) = diphosphine ligand and COD = cyclooctadiene, Al-MCM-41 and Al-MCM-48, resp. Impregnation of the mesoporous Al-MCM-41 and Al-MCM-48 with the organometallic complexes in dichloromethane led to strongly bonded hydrogenation catalysts. The catalysts were characterized with XRD, FT-IR and NMR-NMR, as well as thermoprogrammed desorption of ammonia, thermogravimetric anal., and nitrogen sorption expts. The hydrogenation of di-Me stannate (I), Me α -acetoacrylate (II), and Me α -acetoindolizinate (III) were studied as test reactions. The immobilized catalysts showed high activities and excellent chemo- and enantioselectivities. Up to 99% e.e., >99% conversion and 99% selectivity were observed in the case of studied prochiral olefins. The catalysts could be reused without a loss of catalytic activity. Leaching of the homogeneous complex out of the mesoporous framework was not observed
 IT 134715-35-0
 RI: CAT (Catalyst use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)
 RE 134715-35-0 CAPLUS
 CD Phospholane, 1,1'-[1,2-phenylene]bis[2,5-dimethyl-, (2S,2',5S,5'S)- (CA INDEX NAME)
 Absolute stereochemistry. Rotation (+).

16 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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16 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 ACCESSION NUMBER: 2005:314635 CAPLUS
 DOCUMENT NUMBER: 14743953
 TITLE: Asymmetric hydrogenation using chiral Rh complexes immobilized with a new ion-exchange
 strategy
 AUTHOR(S): Bone, William P.; Moberg, Paul; Rudel, Stewart; Watson, Jimmy; Hancock, Frederick S.; Hutchings, Graham J.
 CORPORATE SOURCE: Johnson Matthey PCT, Cambridge, CB4 0PP, UK
 SOURCE: Organic & Biomolecular Chemistry (2005), 3(8), 1547-1550
 JUNE 2005
 DOCUMENT TYPE: Royal Society of Chemistry Journal
 LANGUAGE: English
 OTHER SOURCE(S): CHEMABCT 14743953
 AB Rh diphosphine complexes using Dufosha and Josiphos as chiral ligands were immobilized by ion exchange into the responsive material N3M-41. When used as catalysts for the enantioselective hydrogenation of di-Me itaconate and Me-2-acetamidoacrylate, these heterogeneous catalysts give catalytic performance in terms of yield and enantioselectivity that are comparable to the corresponding homogeneous catalysts. Also, the heterogeneous catalysts can be readily recovered and reused without loss of catalyst performance. A 2nd immobilization strategy is described in which [Rh(COD)]+ BF4- is initially immobilized by ion exchange and subsequently modified by the chiral diphosphine and this gives comparable catalyst performance. This immobilization strategy opens up the possibility of easy ligand-screening for parallel synthesis and libraries.
 IT 147553-67-6
 RI ACT (Reactant); RACT (Reactant or reagent)
 (reaction of chiral diphosphine ligands with immobilized rhodium hydrogenation catalyst for the asym. heterogeneous hydrogenation of di-Me itaconate or acetamidoacrylate)
 RI 147553-67-6 CAPLUS
 CH Phenolphthalein, 1,1'-(1,2-phenylene)bis[2,5-dimethyl-, (2R,2'R,5R,5'R)- ICA
 INDEX NAME)

Absolute stereochemistry. Rotation (-).



16 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 ACCESSION NUMBER: 2005:314635 CAPLUS
 DOCUMENT NUMBER: 14743953
 TITLE: Asymmetric hydrogenation catalysts
 AUTHOR(S): Bone, William Patrick; Hutchings, Graham John
 PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK
 SOURCE: PCT Int. Appl., 15 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY AC. NUM. COUNT: 1
 PATENT INFO: 2700

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002036261	A2	20020510	WO 2001-GB4843	20011101
WO 2002036261	A3	20021023		
US 2002012470	A	20020515	US 2002-12470	20011101
EP 1390142	A	20040225	EP 2001-950477	20011101
US 2004020549	A1	20041104	US 2003-416053	20030902
PRIORITY APPL. 2700.1			GB 2000-16890	A 20001105
			WO 2001-GB4843	M 20011101

OTHER SOURCE(S): MARCH 236:371455
 AB A solid catalyst for asym. hydrogenation reactions is disclosed comprising a chiral osmium metal-ligand complex immobilized on a mesoporous alumina-silicate support. The catalyst is formed by ion exchange with the acid sites of the support. The catalyst is reusable, and maintains its activity after use.
 IT 147553-67-6, 1,1'-(1,2-phenylene)bis[2,5-dimethyl-,
 RI ACT (Reactant); RACT (Reactant or reagent)
 (ligand asym. hydrogenation catalysts)
 RI 147553-67-6 CAPLUS
 CH Phenolphthalein, 1,1'-(1,2-phenylene)bis[2,5-dimethyl-, (2R,2'R,5R,5'R)- ICA
 INDEX NAME)

Absolute stereochemistry. Rotation (-).

16 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 REFERENCE COUNT: 28 THREE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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16 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



10/541,531

11/10/2008

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

42.42

220.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-4.80

-4.80

STN INTERNATIONAL LOGOFF AT 10:19:21 ON 10 NOV 2008